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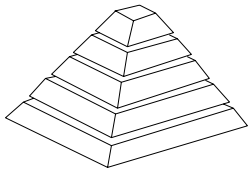

## PMG EVM

## 1. GENERAL SCSI DEVICES

### 1.1. SCSI ADDRESSING

In general all wide SCSI devices have four jumpers to set their SCSI address. In case of narrow SCSI, the devices have three jumpers (ID3 is not available)

| SCSI Address | Jumper ID3 | Jumper ID2 | Jumper ID1 | Jumper ID0 |
|---|---|---|---|---|
| 0 | OUT | OUT | OUT | OUT |
| 1 | OUT | OUT | OUT | IN |
| 2 | OUT | OUT | IN | OUT |
| 3 | OUT | OUT | IN | IN |
| 4 | OUT | IN | OUT | OUT |
| 5 | OUT | IN | OUT | IN |
| 6 | OUT | IN | IN | OUT |
| 7 | OUT | IN | IN | IN |
| 8 | IN | OUT | OUT | OUT |
| 9 | IN | OUT | OUT | IN |
| A | IN | OUT | IN | OUT |
| B | IN | OUT | IN | IN |
| C | IN | IN | OUT | OUT |
| D | IN | IN | OUT | IN |
| E | IN | IN | IN | OUT |
| F | IN | IN | IN | IN |

ID3 = Wide SCSI only
OUT =jumper not installed
IN = jumper installed


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## 1.2. SCSI DEVICE NAMES

**Explanation of Device Names:**

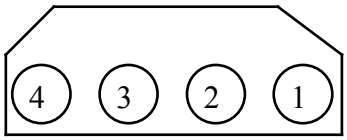
Example c0t30s0:
- c = controller
- t = target
- d = disc
- s = slice (partition)

## 1.3. SCSI POWER

All SCSI devices use: +5Vdc and +12Vdc
The DC power connector pinning is shown in the figure below.

***NOTE***

*Some devices have the power connector mounted upside down, as shown below.*




Pin 1: +12V DC
Pin 2: +12V Return
Pin 3: +5V Return
Pin 4: +5V

## 1.4. SCSI BUS TERMINATION

The SCSI bus is terminated with an external SCSI Terminator at the end of the SCSI chain. (see drawings). This means that from all SCSI devices the SCSI terminator (chips) must be removed. For factory delivered systems this has already been done. Incase of replacing or adding a (optional) SCSI device you should check if the SCSI termination has been removed!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# Philips Medical Systems

# PMG EVM

## 2. PHILIPS CDD 3600 CD-RECORDABLE

### 2.1. APPLIES TO

EasyVision based on SPARCstation 5, UltraSPARC 1, UltraSPARC 2, Ultra 5, Ultra 10 and Ultra 60 with EVR4.2.x or higher software.

### 2.2. INTRODUCTION

This sheet describes the installation steps according to the CDD 3600 CD-recordable drive.

### 2.3. UNPACKING

Unpack the CD-recordable with care. Once unpacked, take the proper precautions when handling the device because the drive is static sensitive.

### 2.4. INSTALLATION

The CD-recordable drive is installed in the Peripheral 1 Cabinet.

**WARNING**

*Do not mount the CDD 3600 drive in the Peripheral 2 or Peripheral 4 Cabinet!*


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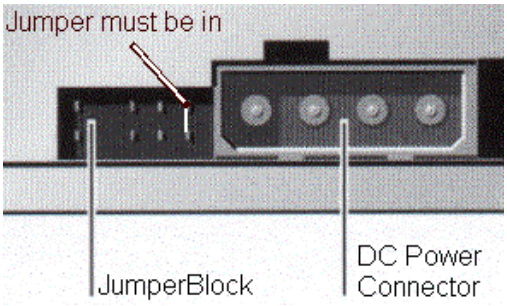
## 2.5. SETTING TO WORK

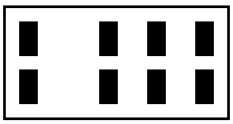
SCSI address =4.

Remove SCSI terminator.




Jumperblock:

SCSI ID0 ID1 ID2
Terminator



## 2.6. OPERATION

**CAUTION**

In writing mode the CD-recordable drive is very sensitive for shock and vibration.
So be sure that the Peripheral 1 Enclosure is placed in a stable position. If not, it will result in unusable discs and software failures like, system hangups, disc ejection failures, software errors.

———————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# Philips Medical Systems

## PMG EVM

## 3. SUN CD32 CDROM

### 3.1. APPLIES TO

EasyVision based on SS5. UltraSPARC 1, UltraSPARC 2,and UltraSPARC 60.

### 3.2. INTRODUCTION

This sheet describes the installation steps according to the SUN CDROM drive.

### 3.3. UNPACKING

Unpack the CD-ROM reader with care. Once unpacked, take the proper precautions when handling the device because the drive is static sensitive.

### 3.4. INSTALLATION

The SUN CDROM drive is factory installed in the SUN station.
In case of an SS5 and Trolley, the CDROM can be mounted in the PTI 4 cabinet..


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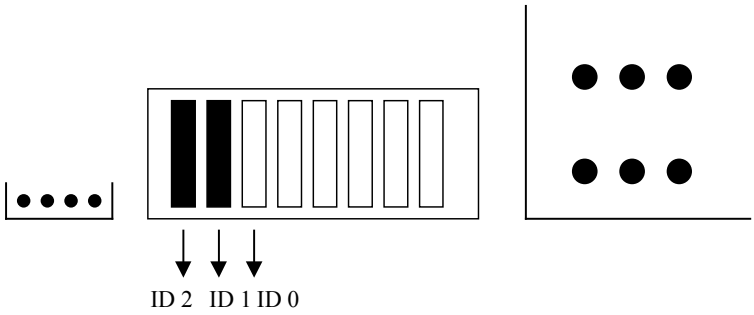
## 3.5. SETTING TO WORK

SCSI address =6.




## 3.6. OPERATION

N.A.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# Philips Medical Systems

## PMG EVM

## 4. PIONEER DR-506 CDROM

### 4.1. APPLIES TO

EasyVision based on SPARCstation 5, UltraSPARC 1, UltraSPARC 2.

### 4.2. INTRODUCTION

This sheet describes the installation steps according to the Pioneer CDROM drive.

### 4.3. UNPACKING

Unpack the CD-ROM reader with care. Once unpacked, take the proper precautions when handling the device because the drive is static sensitive.

### 4.4. INSTALLATION

The Pioneer CDROM drive is installed in the SUN Ultra/SS5 station.
In case of an SS5 and Trolley, the CDROM can be mounted in the PTI 4 cabinet..


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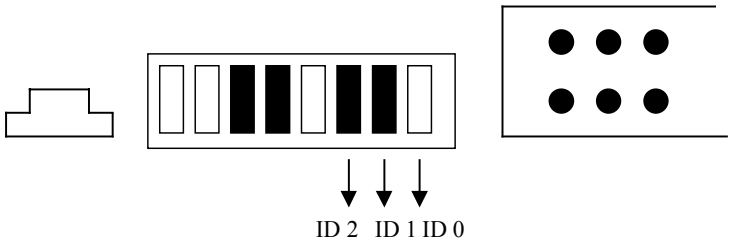
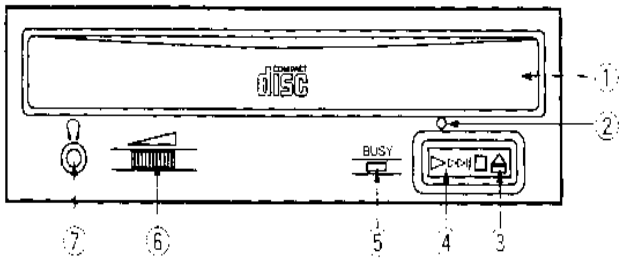
## 4.5. SETTING TO WORK

SCSI address =6.



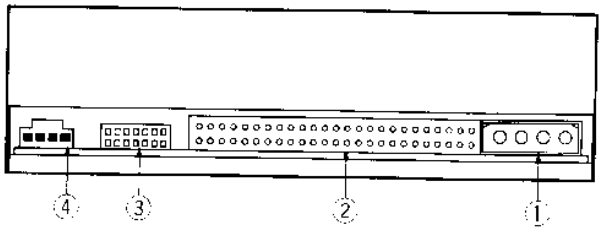

## 4.6. OPERATION

**FRONT VIEW**




1. Disc Tray: autoloading is performed with the eject button
2. Hole for Forced Ejection: When the eject button has lost its function, insert a stiff rod into this hole and push to eject the disc tray. Before executing this operation, switch the computer power supply off.
3. Eject/Stop Button: This button is used to move the tray in and out. When this button is pressed once during a playback of an audio disc, the playback will be stopped, and when it is pressed in stopped condition the disc will be ejected.
4. Play/Skip Button: this is used for direct playback of audio discs. When an audio disc is inserted and this button is pressed, play status will be reached, and when this button is pressed in play status, the playback will skip to the next track. Data discs will not be played back.
5. Busy Indicator: This flashes during data access.
6. Volume Control (headphone level): this is used to adjust the volume level of the headphone jack.
7. Headphone Jack: this is a stereo mini-jack for headphones.

**REAR VIEW**




1. DC Input: this is the DC input, +5 and +12 volt. Connect the computer power supply only.
2. SCSI Interface: this is a 50-pin I/O connector according to SCSI-2 specifications. Use a flat ribbon SCSI connector to connect to the SCSI host adaptor.
3. Function Switch: use the accessory short-circuit sockets to set the SCSI ID number and the drive function.
4. Audio Output: this is a connector for analog audio output. As a Molex 70553 is used, please select a suitable connection cable.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Emergency disc retrieval

In the event of a power failure or computer failure, use the following emergency unload procedure to retrieve your disc:

- switch the power off;
- use a straightened paper clip or similar instrument with a narrow tip, insert it straight into the hole for forced ejection and push strongly;
- when the disc tray protrudes sufficiently, pull it out manually;
- retrieve your CD-ROM.

To re-insert the tray:

- switch the power on;
- either press the Eject/Stop switch or push the disc tray lightly for automatic retraction inside the unit.

***NOTE***

*To avoid damage to the disc tray, neither exert pressure on the extended tray nor place heavy objects on the tray.*


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# Philips Medical Systems

## PMG EVM

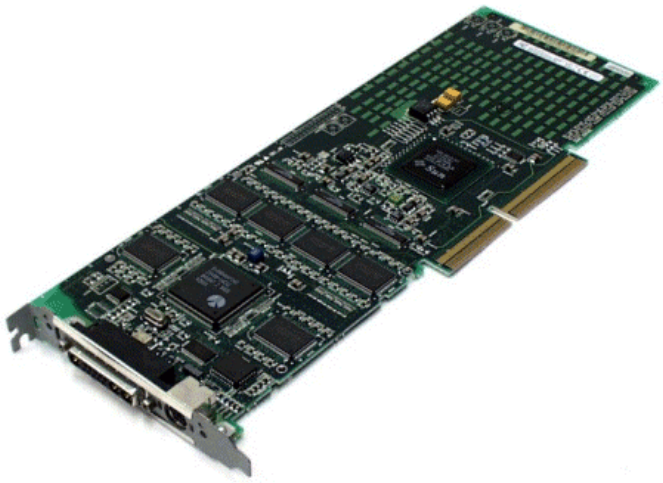
## 5. SUN CREATOR 3D FRAMEBUFFER

### 5.1. APPLIES TO

EasyVision based on Ultra 10 and Ultra 60.

### 5.2. INTRODUCTION

This sheet describes the installation steps according to the Creator 3D card.



### 5.3. UNPACKING

Unpack Creator 3D card with care. Once unpacked, take the proper precautions when handling the device because the drive is static sensitive.

### 5.4. INSTALLATION

The Creator 3D card is factory installed in the SUN Ultra station

### 5.5. SETTING TO WORK

No jumper settings

### 5.6. OPERATION

N.A.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# Philips Medical Systems

## PMG EVM

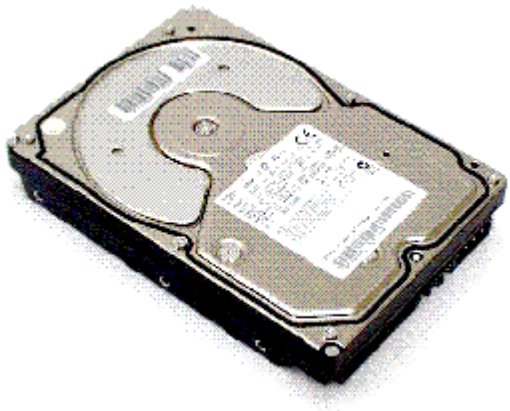
## 6. IBM DDRS 9.1 GB IMAGE DISK

### 6.1. APPLIES TO

EasyVision based on UltraSPARC 1, UltraSPARC 2, Ultra 5, Ultra 10 and Ultra 60.

### 6.2. INTRODUCTION

This sheet describes the installation steps according to the IBM DDRS 9.1GB optical disk drives.



### 6.3. UNPACKING

Unpack the hard disk drive with care. Once unpacked, take the proper precautions when handling the device because the drive is static sensitive.

### 6.4. INSTALLATION

The hard disk drive is factory installed in the Peripheral 2 or Peripheral 4 Cabinet.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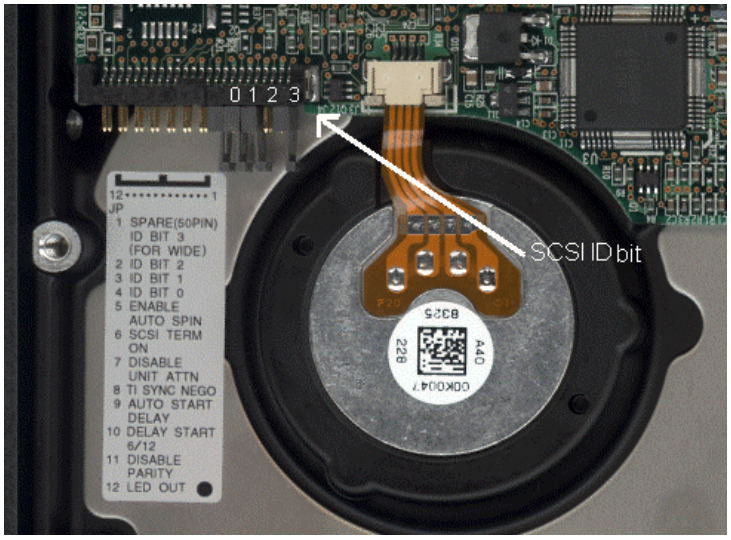
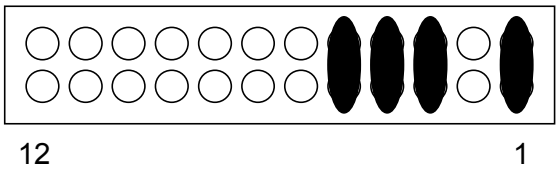
## 6.5. SETTING TO WORK

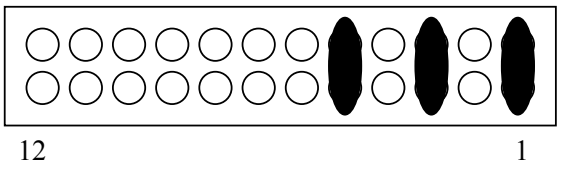



Set the jumper settings of the SCSI.

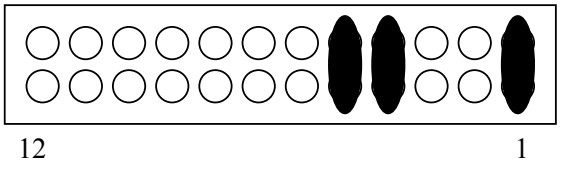
SCSI address =B (11)



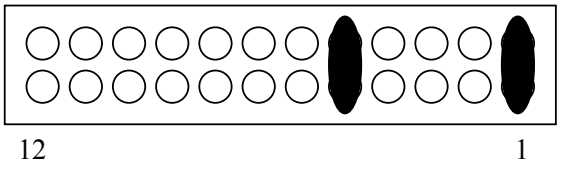

SCSI address =A (10) for 1 additional image disk.




SCSI address =9 for 2 additional image disk.




SCSI address =8 for 3 additional image disk.




***NOTE***

Terminator resistors removed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### 6.5.1. DETAILED INFORMATION

In total EasyVision supports 4 IBM DCH disk drives:

| | | | |
|---|---|---|---|
| DDRS-39130 | 9.1GB | 68 pins SCSI | Single Ended Fast/Wide |

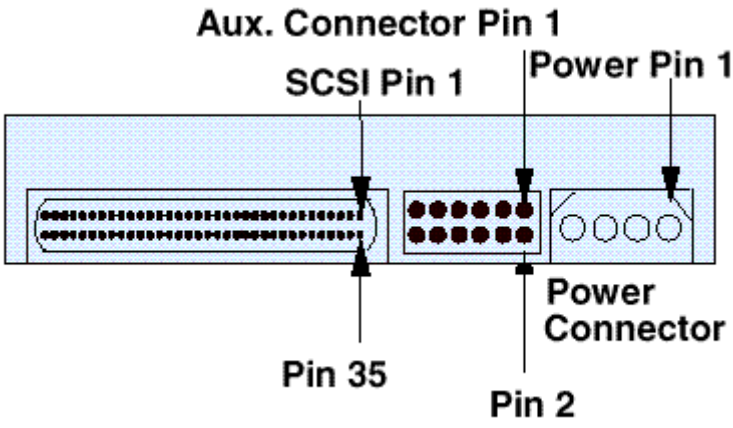


**Figure 1 - Single Ended Fast/Wide**

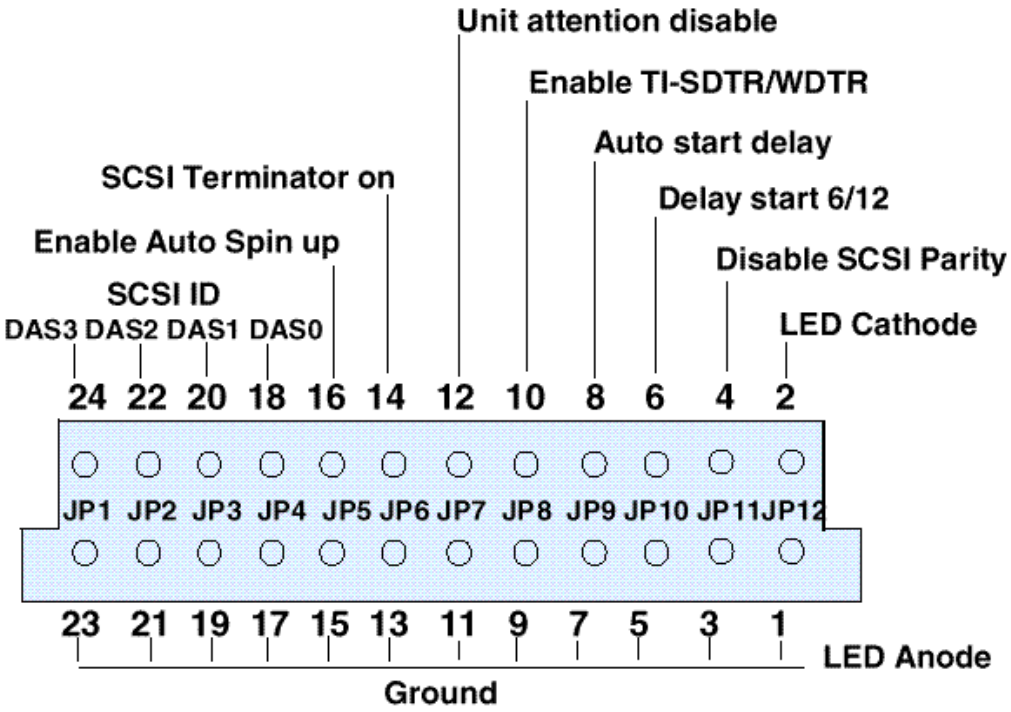
Unit attention disable
Enable TI-SDTR/WDTR
Auto start delay
Delay start 6/12
Disable SCSI Parity
LED Cathode
SCSI Terminator on
Enable Auto Spin up
SCSI ID
DAS3 DAS2 DAS1 DAS0
24 22 20 18 16 14 12 10 8 6 4 2
JP1 JP2 JP3 JP4 JP5 JP6 JP7 JP8 JP9 JP10 JP11 JP12
23 21 19 17 15 13 11 9 7 5 3 1
LED Anode
Ground

**Figure 2 - 68 Pin Model Jumper Pins Assignment (Upside down view)**


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**Enable Auto Spin Up (JP5)**
This jumper controls how the drive starts when power is applied. If the jumper is installed then the file will spin up automatically after power-on reset. If the jumper is NOT installed the file will NOT spin up unless the host system issues a ‘START UNIT’ command to the file.

**SCSI Terminator On (JP6)**
When this jumper is installed, the on-card SCSI bus terminator is enabled. No Terminator on 80 pin model.

**Unit Attention Disable (JP7)**
When this jumper is installed the drive will not generate a Unit Attention following a Power On Reset (POR) or SCSI Bus Reset. Any pending Unit Attention conditions will also be cleared at POR or SCSI Bus Reset.

**Enable TI-SDTR/Enable TI-SDTR/WDTR (JP8)**
When the jumper is installed the drive will initiate Synchronous Data transfer speed negotiation (50, 68 and 80 pin) and initiate Wide Data transfer request (68 and 80 pin) following a SCSI bus Reset or power on event.

**Auto Start Delay and Delay Start (JP9, JP10)**
The Auto Start Delay and Delay Start pins control when and how the drive can spin up, with the combination of Auto Spin option (pin #5). When in Auto Spin up and Start Delay mode the drive start will be delayed by a period of time multiplied by its own SCSI address. If Auto Spin up is disabled, these jumpers will be ignored.

| Enable Auto Spin up JP5 | Auto Start Delay JP9 | Delay Start 6/12 JP10 | Option |
|---|---|---|---|
| off | don’t care | don’t care | Drive will NOT spin up Requires Start Command |
| on | off | off | Spin up immediately after POR |
| on | on | off | Spin up six seconds multiplied by SCSI address after POR |
| on | on | on | Spin up twelve seconds multiplied by SCSI address after POR |


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**Disability SCSI parity (JP11)**
When this jumper is installed, the drive's SCSI parity checking is disabled.

**External Activity (LED) pins (JP12)**
The LED pins can be used to drive an external Light Emitting Diode. Up to 8 mA of sink current capacity is provided. The LED Anode must be tied to the current limited +5V source provided on Pin # 1 of the Option Jumper Block. The LED Cathode is then connected to the Pin # 2 to complete the circuit.

## 6.6. OPERATION

N.A.


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# Philips Medical Systems

## PMG EVM

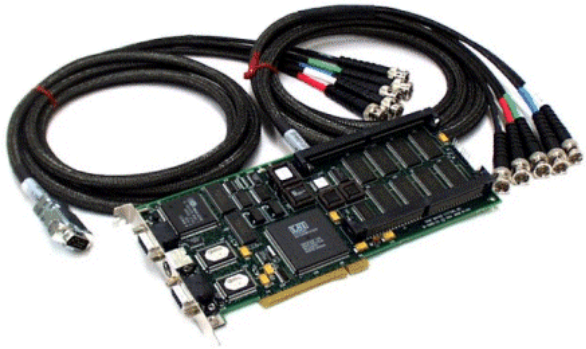
## 7. DOME MD2 PCI FRAMEBUFFER

### 7.1. APPLIES TO

EasyVision based on Ultra 5, Ultra 10 and Ultra 60.

### 7.2. INTRODUCTION

This sheet describes the installation steps according to the Dome Md2 PCI Framebuffer.



### 7.3. UNPACKING

Unpack the Md2 PCI Framebuffer with care. Once unpacked, take the proper precautions when handling the device because the card is static sensitive.

### 7.4. INSTALLATION

The DOME Md2 PCI card is factory installed in the Ultra station.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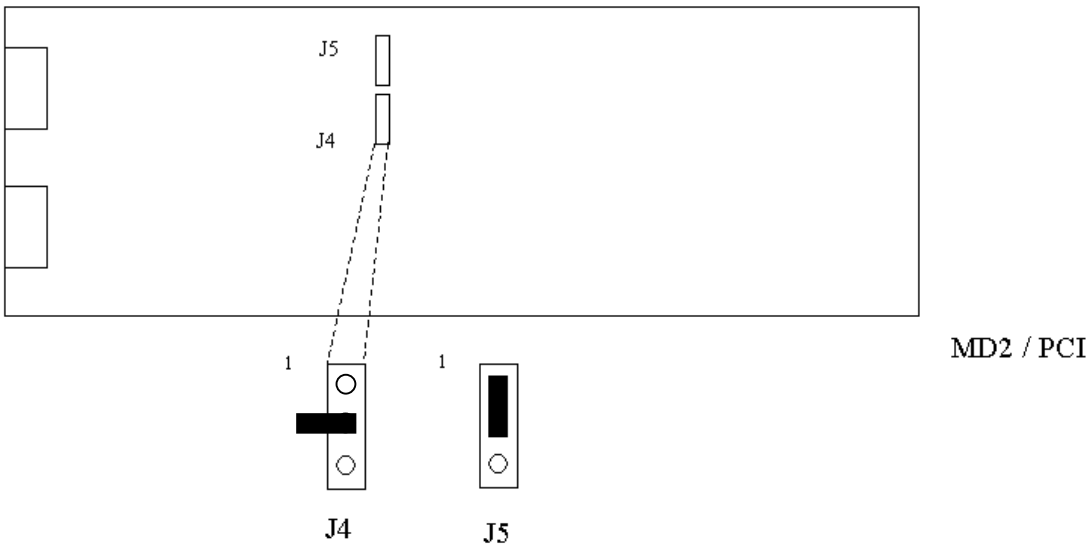
## 7.5. SETTING TO WORK

Jumper settings on the card:




J4: Position 2 no jumper connection to pin 1 or 3
J5: Position 1-2 (always)

Use only VGA cables with 15 pin sub-D VGA connectors at both ends; cables with BNC connectors will not work with FIMI monitors.

## 7.6. OPERATION

N.A.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# Philips Medical Systems

## PMG EVM

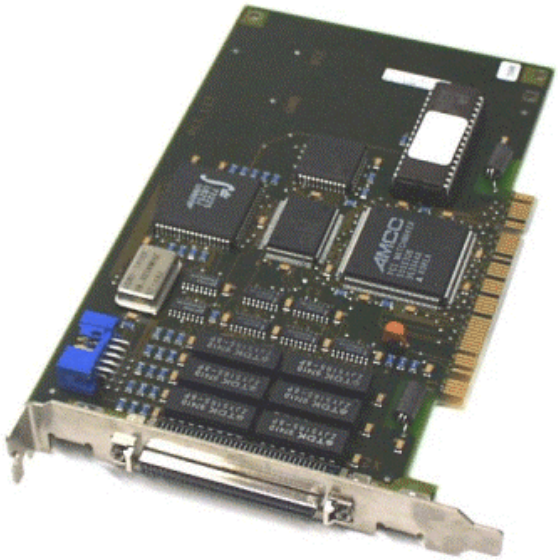
## 8. HARDCOPY UNIT PCI CARD

### 8.1. APPLIES TO

EasyVision based on Ultra 5, Ultra 10 and Ultra 60.

### 8.2. INTRODUCTION

This sheet describes the installation steps according to the HCU SCSI Card.



### 8.3. UNPACKING

Unpack the HCU SCSI card with care. Once unpacked, take the proper precautions when handling the device because the drive is static sensitive.

### 8.4. INSTALLATION

The HCU SCSI card is factory installed in the SUN Ultra Station.

In case of an option:

1. For EasyVision Release 4 Furniture version, unmount the SUN
2. Unpack the SCSI control card, the short (external) cable and the SCSI Adaptor Differential. Ensure that the mains power supply to the EasyVision system has been switched off.
3. Remove the cover of the EasyVision according the EasyVision SUN Ultra Unit Manual, Chapter Internal Access
4. Install the SCSI HCU card
5. No jumper settings to be set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## 8.5. SETTING TO WORK

No jumper settings to be installed

## 8.6. OPERATION

For the HCU operation, see Service Manual Imager/Printer Compatibility.


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# Philips Medical Systems

## PMG EVM

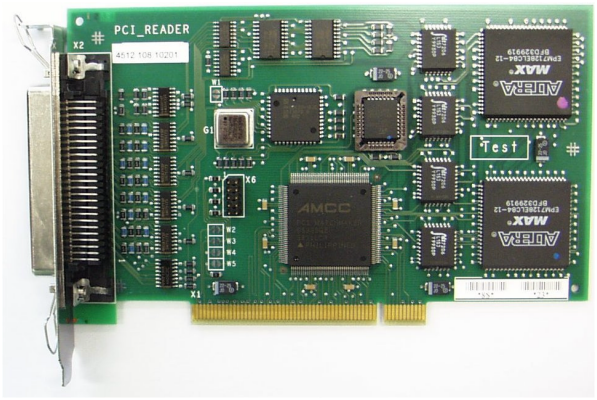
## 9. PCI (DMS) READER CARD

### 9.1. APPLIES TO

EasyVision RAD based on Ultra 5, Ultra 10 and Ultra 60.

### 9.2. INTRODUCTION

This sheet describes the installation steps according to the PCI (DMS) Reader card.




### 9.3. UNPACKING

Unpack the PCI (DMS) Reader card with care. Once unpacked, take the proper precautions when handling the device because the drive is static sensitive.

### 9.4. INSTALLATION

The PCI (DMS) Reader card is factory installed in the SUN Ultra station.

**In case of upgrading to the DMS reader option**:

1. Unpack the PCI (DMS) Reader card and the DMS Reader cable. Ensure that the mains power supply to the EasyVision system has been switched off.
2. Remove the cover of the EasyVision according the EasyVision SUN Ultra Unit Manual, Chapter Internal Access.
3. Insert the PCI (DMS) Reader card into a suitable PCI slot and reassemble the computer
4. Connect the DMS cable between the SUN and the Reader DMS connector.
5. Power up the Sun Ultra5/ 10/ 60 press STOP-A and enter at the OK prompt **boot –R.**
6. At the Start up Menu select Configuration go to the EasyVision RAD edit mode click on Peripheral Settings and activate DMS Reader = Present. Click on Exit, proceed, Execute the configuration confirm and start the application.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## 9.5. SETTING TO WORK

There are no DIP switches and jumpers to be set.

## 9.6. OPERATION

For the reader operation, see section 2, Installation, cabling IP ‘Readers with parallel interface’


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# Philips Medical Systems

## PMG EVM

## 10. SUN PGX FRAMEBUFFER

### 10.1. APPLIES TO

EasyVision based on Ultra 5 and Ultra 10.

### 10.2. INTRODUCTION

This sheet describes the installation steps according to the PGX card.

### 10.3. UNPACKING

Unpack the PGX card with care. Once unpacked, take the proper precautions when handling the device because the drive is static sensitive.

### 10.4. INSTALLATION

The PGX card is factory installed in the SUN Ultra station.

In case of an option:

1. For EasyVision Release 4 Furniture version, unmount the SUN
2. Unpack the SCSI control card, the short (external) cable and the SCSI Adaptor Differential. Ensure that the mains power supply to the EasyVision system has been switched off.
3. Remove the cover of the EasyVision according the EasyVision SUN Ultra Unit Manual, Chapter Internal Access
4. Set jumper settings
5. Install the PGX card
6. Mount the SUN Ultra station into the trolley


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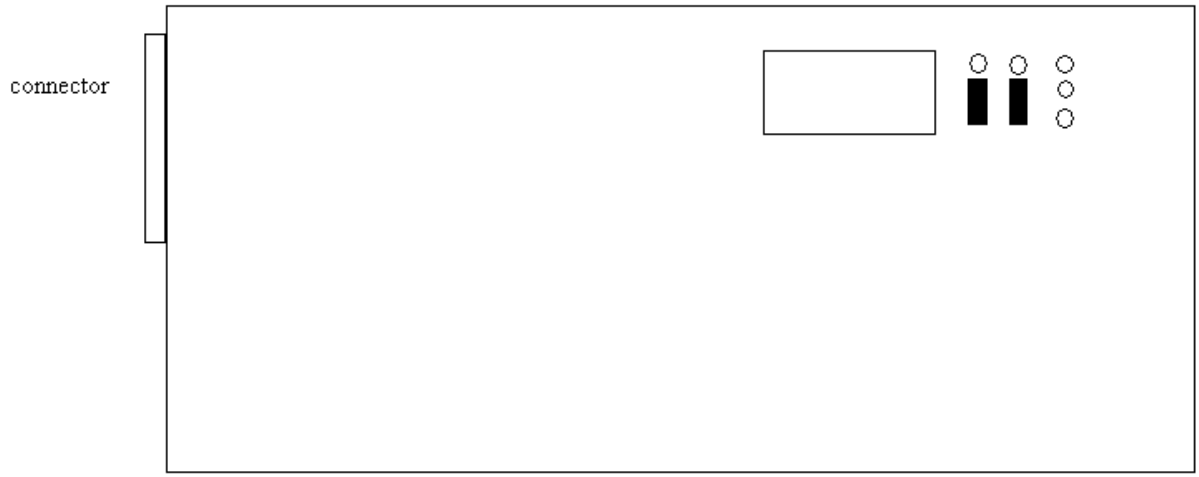
PGX




## 10.5. SETTING TO WORK

For jumper settings, see chapter Installation

## 10.6. OPERATION

N.A.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# Philips Medical Systems

## PMG EVM

## 11. PIONEER DE-UH 7107 EASYSTORE

### 11.1. APPLIES TO

EasyVision based on SPARCstation 5, UltraSPARC 1, UltraSPARC 2, Ultra 5, Ultra 10 and Ultra 60.

### 11.2. INTRODUCTION

This sheet describes the installation steps according to the Pioneer DE-UH 7107 optical disk drives.

### 11.3. UNPACKING

Unpack the optical disk drive with care. Once unpacked, take the proper precautions when handling the device because the drive is static sensitive.

### 11.4. INSTALLATION

The optical disk drive will be delivered in the Peripheral 2 or Peripheral 4 Cabinet.

- In case of an upgrade: when the optical disk drive has been installed and attached to the SCSI bus the operating system and application software has to be reinstalled to incorporate the OD in the system.
- After the complete software has been installed start the configuration tool. Edit the EasyVision (EVn) configuration. In the configuration screen click on Peripheral Settings. At the top of the screen Peripheral Settings highlight Storage Drive ⇨= Present and click on Exit. In the entry field Storage drive name enter Storage drive on EVn. On the EasyVision configuration screen click on proceed and for the configuration click on Execute and confirm.
  When the application has been started the storage drive is available.

Note: Make sure that the EasyStore option has been purchased and the License file has been updated before you start upgrading.


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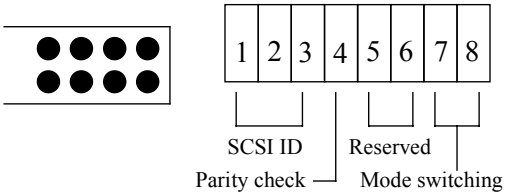
## 11.5. SETTING TO WORK

Jumperblock:

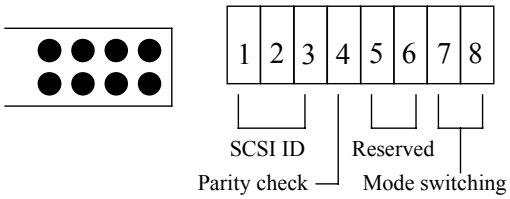



### 11.5.1. SS5 SETTINGS

Set the jumper settings of the SCSI address.

SCSI address =0.

Terminators resistors removed

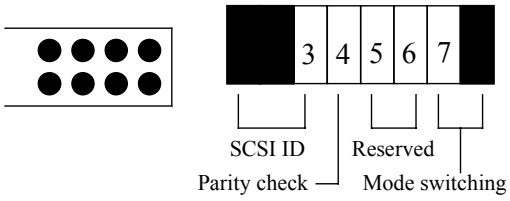



### 11.5.2. ULTRA SETTINGS

Set the jumper settings of the SCSI address.

SCSI address =3.

Terminators resistors removed





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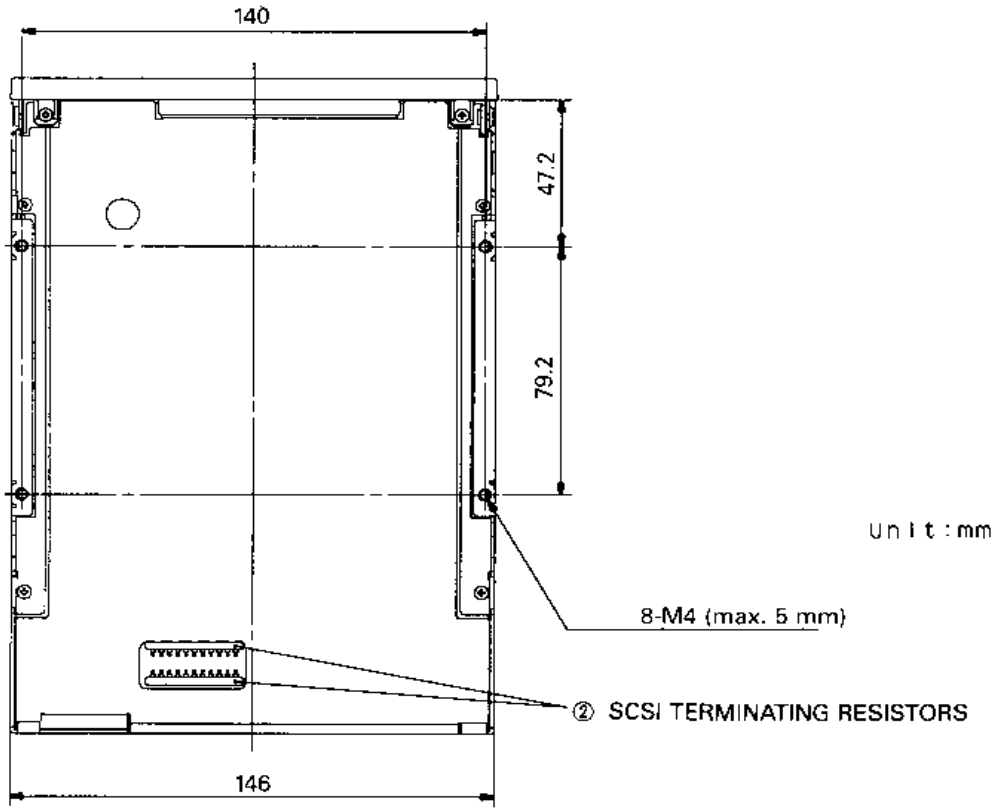
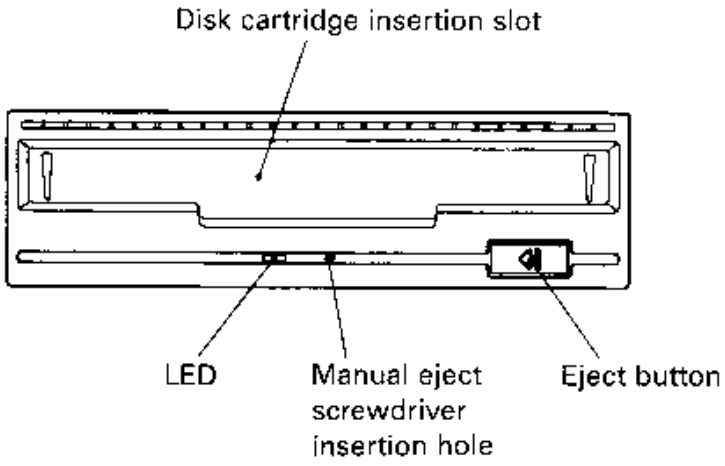
### 11.5.3. DETAILED INFORMATION

### 11.5.4. TERMINATORS




## 11.6. OPERATION





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# Philips Medical Systems

## PMG EVM

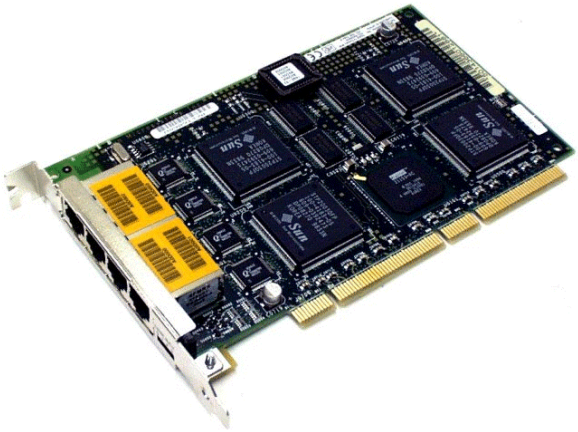
## 12. SUN QUAD ETHERNET CONTROLLER 10/100MBIT

### 12.1. APPLIES TO

EasyVision based on Ultra 5, Ultra 10 and Ultra 60.

### 12.2. INTRODUCTION

This sheet describes the installation steps according to the Quad ethernet controller 10/100Mbit (SUN).



### 12.3. UNPACKING

Unpack the Quad ethernet controller 10/100Mbit (SUN) with care. Once unpacked, take the proper precautions when handling the device because the drive is static sensitive.

### 12.4. INSTALLATION

The Quad ethernet controller 10/100Mbit (SUN) is factory installed in the Ultra. (No jumper settings)

In case of an option:

| | |
|---|---|
| 1. | Power off your system and open the system unit. |
| 2. | Attach the adhesive copper strip of the wrist strap to the metal casing of the power supply. Wrap the other end twice around wrist, with the adhesive side against your skin. |
| 3. | Holding the PCI adapter by the edges, unpack and place it on an antistatic surface |
| 4. | Remove the PCI filler panel from the slot in which you want to insert the Sun Quad FastEthernet PCI adapter. |
| 5. | Holding the PCI adapter by the edges, align the adapter edge connector with the PCI slot. Slide the adapter face plate into the small slot at the end of the PCI opening. |
| 6. | Applying even pressure at both corners of the adapter, push the PCI adapter until it is firmly seated in the slot. |
| 7. | If necessary, reinstall the PCI filler panel in the unused PCI opening. |
| 8. | Detach the wrist strap and close the system unit. |
| 9. | Connect the Ethernet cables to the SUN Quad FastEthernet PCI adapter and to an Ethernet network. Empty Ethernet channels need a Ethernet loopback connector to avoid network connection errors. |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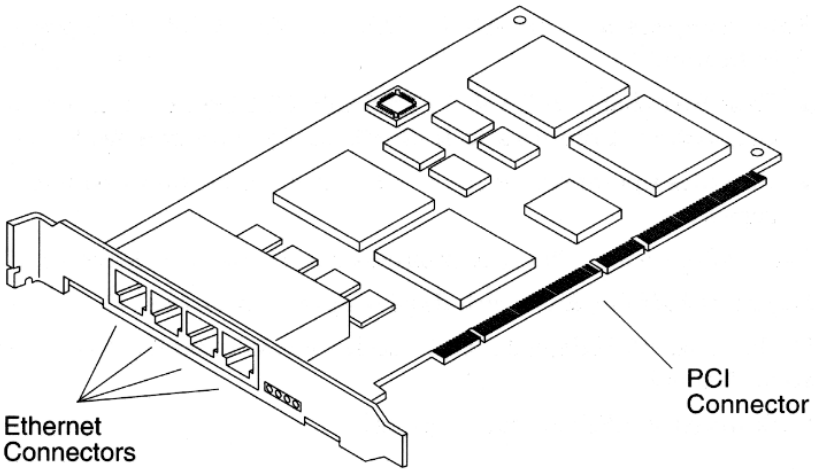
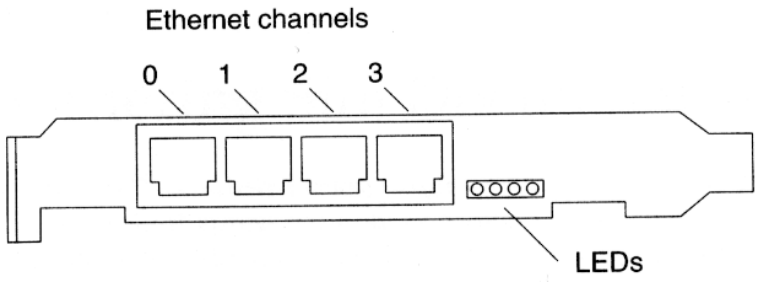
## 12.5. SETTING TO WORK

| | |
|---|---|
| 1. | Power on the system, and when the banner appears, press the Stop-A keys to interrupt the boot process and to get the `ok` prompt. |
| 2. | Use the `show-devs` command to list the system devices.<br>You should see lines in the list of devices, similar to the example below: |
| | `Ok` **`show-devs`**<br>`…`<br>`/pci@1f,2000/pci@2/SUNW,qfe@0,1`<br>`/pci@1f,2000/pci@2/SUNW,qfe@1,1`<br>`/pci@1f,2000/pci@2/SUNW,qfe@2,1`<br>`/pci@1f,2000/pci@2/SUNW,qfe@3,1`<br>`…` |

## 12.6. OPERATION





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# Philips Medical Systems

## PMG EVM

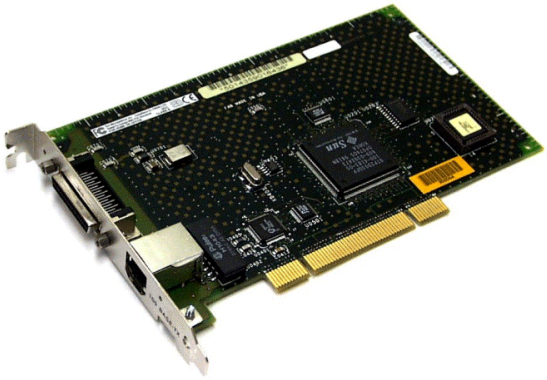
## 13. SUN FASTETHERNET PCI ADAPTER

### 13.1. APPLIES TO

EasyVision based on Ultra 5, Ultra 10 and Ultra 60.

### 13.2. INTRODUCTION

This sheet describes the installation steps according to the SUN FastEthernet PCI Adapter.



### 13.3. UNPACKING

Unpack the SUN FastEthernet PCI Adapter with care. Once unpacked, take the proper precautions when handling the device because the drive is static sensitive.

### 13.4. INSTALLATION

The SUN™ FastEthernet™ PCI Adapter is factory installed in the Ultra. (No jumper settings)

In case of an option:

| | |
|---|---|
| 1. | Power off your system and open the system unit. |
| 2. | Attach the adhesive copper strip of the wrist strap to the metal casing of the power supply. Wrap the other end twice around wrist around wrist, with the adhesive side against your skin. |
| 3. | Holding the PCI adapter by the edges, unpack and place it on an antistatic surface |
| 4. | Remove the PCI filler panel from the slot in which you want to insert SUN™ FastEthernet™ PCI Adapter. |
| 5. | Holding the PCI adapter by the edges, align the adapter edge connector with the PCI slot. Slide the adapter face plate into the small slot at the end of the PCI opening. |
| 6. | Applying even pressure at both corners of the adapter, push the PCI adapter until it is firmly seated in the slot. |
| 7. | If necessary, reinstall the PCI filler panel in the unused PCI opening. |
| 8. | Detach the wrist strap and close the system unit. |
| 9. | Connect the Ethernet cable to the SUN™ FastEthernet™ PCI adapter and to an Ethernet network. |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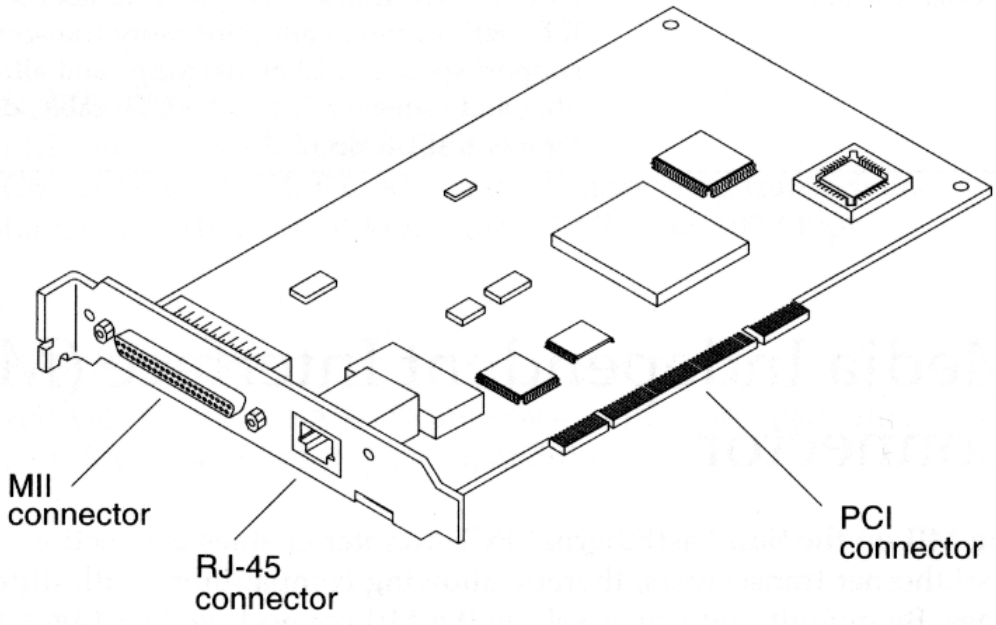
## 13.5. SETTING TO WORK

| | |
|---|---|
| 1. | Power on the system, and when the banner appears, press the Stop-A keys to interrupt the boot process and to get the `ok` prompt. |
| 2. | Use the `show-devs` command to list the system devices.<br>You should see lines in the list of devices, similar to the example below: |
| | `Ok` **`show-devs`**<br>…<br>`/pci@1f,4000/SUNW,hme@4,1`<br><br>… |

## 13.6. OPERATION





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# Philips Medical Systems

## PMG EVM

## 14. SONY SMO-F541 CT/MR INPUT DRIVE

### 14.1. APPLIES TO

EasyVision based on SPARCstation 5, UltraSPARC 1, UltraSPARC 2, Ultra 5, Ultra 10 and Ultra 60.

### 14.2. INTRODUCTION

This sheet describes the installation steps according to the Sony SMO-F541 optical disk drives.

### 14.3. UNPACKING

Unpack the optical disk drive with care. Once unpacked, take the proper precautions when handling the device because the drive is static sensitive.

### 14.4. INSTALLATION

The optical disk drive is factory installed in the Peripheral 2/4 Enclosure.


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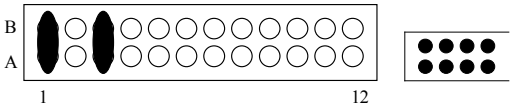
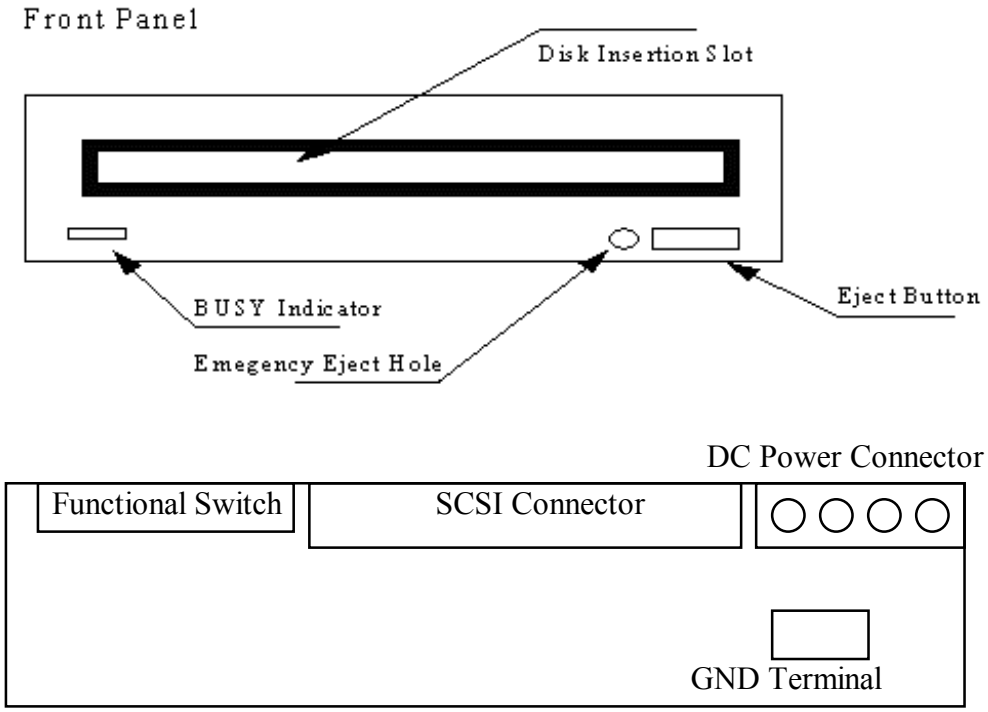
## 14.5. SETTING TO WORK

SCSI address =5

Terminators resistors removed




## 14.6. OPERATION




**Functional Switch:** A 24 pin header socket jumper block is used for setting the SCSI drive number and other drive configurations.

**SCSI Connector:** A standard 50-pin SCSI connector is used for connection with the host system.

**DC Power Connector:** A 4-pin DC voltage, power supply connector.

**GND Terminal:** The drive's ground outlet.

**Disk Insertion Slot:** Insert the disk cartridge into this slot.

**BUSY Indicator:** The indicator lights up when the drive is accessing or writing data. Do not eject the disk cartridge when this indicator is lit.

**Emergency Eject Hole:** If the disk cartridge can not be ejected using the eject button or SCSI command, turn off power and insert the supplied emergency eject tool into this hole to eject turn off power and insert the supplied emergency eject tool into this hole to eject the cartridge.

**Eject Button:** Press this button to eject the disk cartridge from the drive. This eject button is disabled when the functional switch or software settings prohibit ejection.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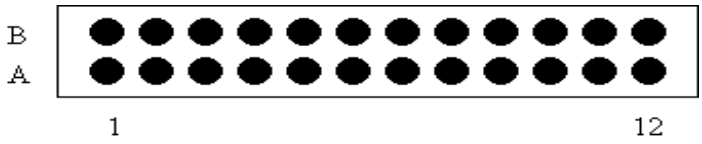
### 14.6.1. DETAILED INFORMATION

**Jumper block:**




| | | | |
|---|---|---|---|
| A1 | SCSI ID2 | B1 | GND |
| A2 | SCSI ID1 | B2 | GND |
| A3 | SCSI ID0 | B3 | GND |
| A4 | SCSI Parity | B4 | GND |
| A5 | Write Cache Control | B5 | Reserved |
| A6 | Disable Auto Spin-up | B6 | Reserved |
| A7 | Force Verify for Write Operation | B7 | Reserved |
| A8 | Reserved | B8 | Reserved |
| A9 | Disable Manual Eject | B9 | Reserved |
| A10 | Reserved | B10 | Reserved |
| A11 | Enable Termination | B11 | GND |
| A12 | Terminator Power | B12 | Terminator Power Source |

**SCSI ID2, 1, 0:** These connector pins are used for setting the SCSI ID.

**SCSI Parity:** If no jumper socket is placed into this switch, the drive performs SCSI parity checking (factory default). If a jumper socket is placed to this switch, the drive does not perform SCSI parity checking.

**Write Cache Control:** In no jumper is placed into this switch, the drive performs write back caching (factory default). If a jumper socket is placed to this switch, the drive does not perform write back caching.

**Disable Auto Spin-up:** This function switch, controls drive automatic spin-up mode. If no jumper socket is placed into this switch, the drive automatically spins up media when it is loaded (factory default). If a jumper socket is place to this switch, this function is disabled.

**Force Verify for Write Operation:** If a jumper socket is placed to this switch the drive performs write and verify operation when it executes WRITE command.

**Disable Manual Eject:** This function switch informs the drive whether it enables or disables cartridge ejection by the eject button. The settings are Enable = OFF (Factory Default) and Disable =ON

**Enable Termination:** This function switch informs the drive whether it enables or disables internal SCSI active terminator. The settings are Enable = ON and Disable = OFF (Factory Default)

**Terminator Power:** This line is connected to the SCSI bus TERMPWR line.

**Terminator Power Source:** This line supplies +5V DC through an isolation diode for SCSI terminator power to: the SCSI bus TERMPWR line. Connecting pin A12 to B12 enables the SCSI TERMPWR signal.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# Philips Medical Systems

## PMG EVM

## 15. SUN TWIN SCSI PCI CARD

### 15.1. APPLIES TO

EasyVision based on Ultra 5, Ultra 10 and Ultra 60.

### 15.2. INTRODUCTION

This sheet describes the installation steps according to the PCI Twin SCSI card.

### 15.3. UNPACKING

Unpack the PCI Twin SCSI card with care. Once unpacked, take the proper precautions when handling the device because the drive is static sensitive.


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## 15.4. INSTALLATION

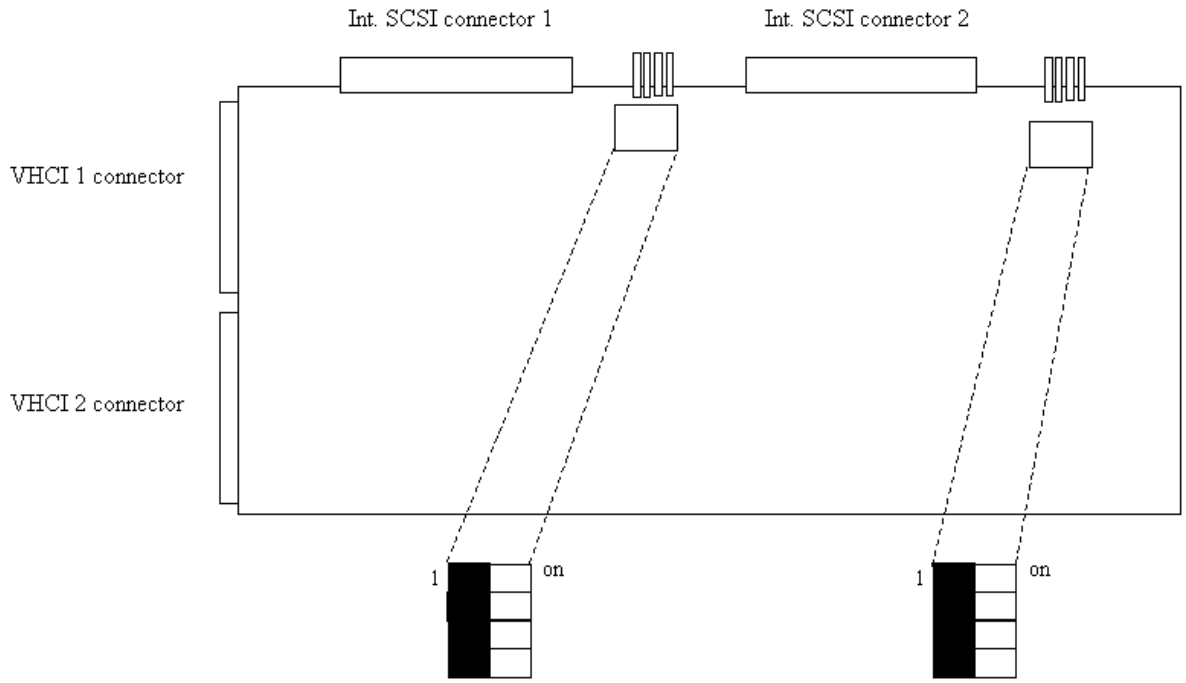
The PCI Twin SCSI card is factory installed in the Ultra. (No jumper settings)

In case of an option:

| | |
|---|---|
| 1. | Power off your system and open the system unit. |
| 2. | Attach the adhesive copper strip of the wrist strap to the metal casing of the power supply. Wrap the other end twice around wrist around wrist, with the adhesive side against your skin. |
| 3. | Holding the PCI adapter by the edges, unpack and place it on an antistatic surface |
| 4. | Remove the PCI filler panel from the slot in which you want to insert PCI Twin SCSI card. |
| 5. | Install jumpers, see Setting to work |
| 6. | Holding the PCI card by the edges, align the card edge connector with the PCI slot. Slide the adapter face plate into the small slot at the end of the PCI opening. |
| 7. | Applying even pressure at both corners of the card, push the PCI card until it is firmly seated in the slot. |
| 8. | If necessary, reinstall the PCI filler panel in the unused PCI opening. |
| 9. | Connect the SCSI cables. |

## 15.5. SETTING TO WORK

Jumper settings:




## 15.6. OPERATION

N.A.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